

# RUBY DAM

## Fact Sheet

### PROJECT DESCRIPTION

- Located on the Ruby River, in Madison County, 7 miles south of Alder
- Owned by DNRC and operated by Ruby Water Users Association since 1938
- Project consists of:
  - Earthen Embankment Dam, 111 feet high, 846 feet long
  - Reinforced concrete chute spillway
  - Gated, reinforced concrete 90" outlet conduit
- Constructed in 1938
- Storage at full pool is 37,612 acre-feet, covering 970 surface acres.
- Two canals deliver water to purchasers: West Bench, 12 miles long, 85cfs capacity; Vigilante, 26 miles long, 115 cfs capacity
- 191 water users have 225 contracts for 38,845 acre/feet of water

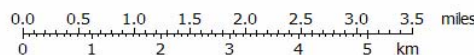
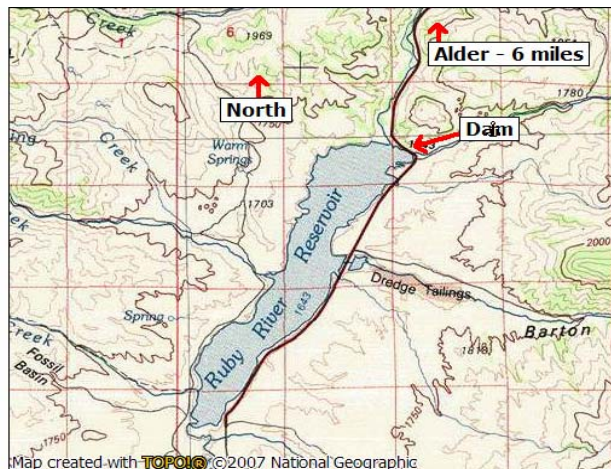
### PROJECT DEFICIENCIES

- Severe concrete deterioration exists in the spillway floor and walls. Spillway replacement is needed to correct the deficiencies.
- Excessive seepage may threaten the structural integrity of the spillway.

### PROPOSED ACTIONS TO ADDRESS DEFICIENCIES

- A feasibility study to evaluate the problems at Ruby Dam at Ruby Dam was completed in 2007 by HLM Engineering of Billings . The \$285,000 feasibility study cost was authorized by the 2006 Legislature and paid by the DNRC.
- This project is in need of major rehabilitation. The preferred alternative identified in the feasibility study for rehabilitation, which includes a new spillway, outlet conduit, drains, access road and additional storage that could be marketed for beneficial uses, will bring the dam into full compliance with current safety and design standards and greatly reduce the state's liability.
- The proposed rehabilitation will also allow for future hydropower development.

**Estimated Cost: \$11,930,000**



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13½  
08/26/08



**Ruby Dam**



**Ruby Dam Spillway**